

PATENT ABSTRACTS OF JAPAN

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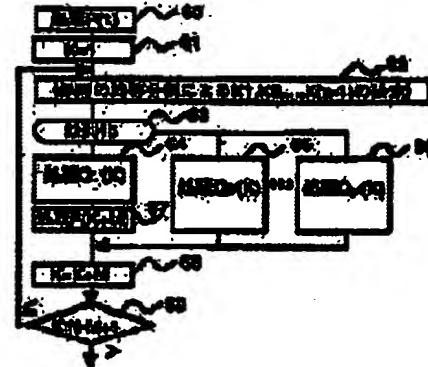
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(54) PARALLEL EXECUTING METHOD FOR REPETITIVE PROCESSING

(57)Abstract:

PURPOSE: To execute a repetitive processing such as an LU decomposing processing by parallel computers in a shorten time.

CONSTITUTION: For example, a (K)th repetitive processing consists of a processing P(K) which can not be performed in parallel and a processing Q(K) which can be performed in parallel, the processing Q(K) uses the result of the processing P(K), and a (K+1)th the processing P(K+1) uses the result of a processing QS(K) as part of the (K)th processing Q(K). In this case, the processing Q(K) is decomposed into processings Q1(K)~QP(K) as many as the number P of processors, and the processing QS(K) is included in the processing Q1(K). The processing Q1(K) and processing P(K+M) are executed in order by the same processor and other processing Q2(K)~Qn(K) are executed by other (P-1) processors in parallel. The said processings are repeated thereafter each time of processes of all the processors end.



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NOTICE OF REJECTION GROUNDS

(Page 1 is not translated at all. Lines 1-15 on page 2 is translated in the following.)

[Ground 2]

[List for specifying reference documents and the like]

1. Published Japanese Patent No. H08-227405 gazette

[Claims] 1-7

[Reference documents] 1

[Remarks]

Document 1 is concerned with a shared-memory type parallel computer equipped with more than one processor modules, and describes about a method for parallel processing of a matrix in which a matrix is divided into a number of submatrices and these submatrices are processed in parallel by the plural processor modules.

It is deemed to be easy for a person in the art to decide what kind of a matrix operation to be performed and have the shared memory type parallel computer described in Document 1 perform thus decided matrix operation. In particular, it is deemed to have been easy for a person in the art to have the shared memory type parallel computer described in Document 1 perform LU decompositions, Cholesky decompositions and modified Cholesky decompositions.

Accordingly, the inventions recited in claims 1-7 are judged to have been easy for a person in the art to conceive based on the invention described in Document 1.

(Above includes all the lines of the paragraph under [Ground 2]. All the remaining lines in page 2 are not translated)

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